

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/664,506A
Source: IFW/16
Date Processed by STIC: 8/9/05

ENTERED

BEST AVAILABLE COPY

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10/664,506A

CRF Edit Date: 8/10/05
Edited by: W

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: / invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:

Revised 09/09/2003



IFW16

RAW SEQUENCE LISTING

DATE: 08/10/2005

PATENT APPLICATION: US/10/664,506A

TIME: 13:55:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102005\J664506A.raw

4 <110> APPLICANT: Meyers, Rachel
 5 Cook, William James
 6 Williamson, Mark
 7 Rudolph-Owen, Laura A.
 8 Gimeno, Ruth
 10 <120> TITLE OF INVENTION: 21481, A NOVEL DEHYDROGENASE MOLECULE
 11 AND USES THEREFOR
 14 <130> FILE REFERENCE: MPI00-079P1RCP2CN1M
 16 <140> CURRENT APPLICATION NUMBER: 10/664,506A
 17 <141> CURRENT FILING DATE: 2003-09-17
 19 <150> PRIOR APPLICATION NUMBER: 09/838,561
 20 <151> PRIOR FILING DATE: 2001-04-18
 22 <150> PRIOR APPLICATION NUMBER: 09/816,760
 23 <151> PRIOR FILING DATE: 2001-03-23
 25 <150> PRIOR APPLICATION NUMBER: 09/634,955
 26 <151> PRIOR FILING DATE: 2000-08-08
 28 <150> PRIOR APPLICATION NUMBER: 60/192,002
 29 <151> PRIOR FILING DATE: 2000-03-24
 31 <160> NUMBER OF SEQ ID NOS: 34
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 2660
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Homo sapiens
 40 <220> FEATURE:
 41 <221> NAME/KEY: CDS
 42 <222> LOCATION: (63)...(2468)
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: 6, 8
 46 <223> OTHER INFORMATION: n = A,T,C or G
 W--> 48 <400> 1
 W--> 49 cctttntnrc cacgcgtccg agagcgcgcc gcagtccttcg cggaaagcgt tcggggtagg 60
 50 cg atg gct gcg acg cgt gca ggg ccc cgc gcc cgc gag atc ttc acc 107
 51 Met Ala Ala Thr Arg Ala Gly Pro Arg Ala Arg Glu Ile Phe Thr
 52 1 5 10 15
 54 tcg ctg gag tac gga ccg gtg ccg gag agc cac gca tgc gca ctg gcc 155
 55 Ser Leu Glu Tyr Gly Pro Val Pro Glu Ser His Ala Cys Ala Leu Ala
 56 20 25 30
 58 tgg ctg gac acc cag gac cgg tgc ttg ggc cac tat gtg aat ggg aag 203
 59 Trp Leu Asp Thr Gln Asp Arg Cys Leu Gly His Tyr Val Asn Gly Lys
 60 35 40 45
 62 tgg tta aag cct gaa cac aga aat tca gtg cct tgc cag gat ccc atc 251
 63 Trp Leu Lys Pro Glu His Arg Asn Ser Val Pro Cys Gln Asp Pro Ile

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64	50	55	60	
66	aca gga gag aac ttg gcc agt tgc ctg cag gca cag gcc gag gat gtg	299		
67	Thr Gly Glu Asn Leu Ala Ser Cys Leu Gln Ala Gln Ala Glu Asp Val			
68	65	70	75	
70	gct gca gcc gtg gag gca gcc agg atg gca ttt aag ggc tgg agt gcg	347		
71	Ala Ala Ala Val Glu Ala Ala Arg Met Ala Phe Lys Gly Trp Ser Ala			
72	80	85	90	95
74	cac ccc ggc gtc gtc cgg gcc cag cac ctg acc agg ctg gcc gag gtg	395		
75	His Pro Gly Val Val Arg Ala Gln His Leu Thr Arg Leu Ala Glu Val			
76	100	105	110	
78	atc cag aag cac cag cgg ctg ctg tgg acc ctg gaa tcc ctg gtg act	443		
79	Ile Gln Lys His Gln Arg Leu Leu Trp Thr Leu Glu Ser Leu Val Thr			
80	115	120	125	
82	ggg cgg gct gtt cga gag gtt cga gac ggg gac gtc cag ctg gcc cag	491		
83	Gly Arg Ala Val Arg Glu Val Arg Asp Gly Asp Val Gln Leu Ala Gln			
84	130	135	140	
86	cag ctg ctc cac tac cat gca atc cag gca tcc acc cag gag gag gca	539		
87	Gln Leu Leu His Tyr His Ala Ile Gln Ala Ser Thr Gln Glu Glu Ala			
88	145	150	155	
90	ctg gca ggc tgg gag ccc atg gga gta att ggc ctc atc ctg cca ccc	587		
91	Leu Ala Gly Trp Glu Pro Met Gly Val Ile Gly Leu Ile Leu Pro Pro			
92	160	165	170	175
94	aca ttc tcc ttc ctt gag atg atg tgg agg att tgc cct gcc ctg gct	635		
95	Thr Phe Ser Phe Leu Glu Met Met Trp Arg Ile Cys Pro Ala Leu Ala			
96	180	185	190	
98	gtg ggc tgc acc gtg gtg gcc ctc gtg ccc ccg gcc tcc ccg gcg ccc	683		
99	Val Gly Cys Thr Val Val Ala Leu Val Pro Pro Ala Ser Pro Ala Pro			
100	195	200	205	
102	ctc ctc ctg gcc cag ctg gcg ggg gag ctg ggc ccc ttc ccg gga atc	731		
103	Leu Leu Leu Ala Gln Leu Ala Gly Glu Leu Gly Pro Phe Pro Gly Ile			
104	210	215	220	
106	ctg aat gtc gtc agt ggc cct gcg tcc ctg gtg ccc atc ctg gcc tcc	779		
107	Leu Asn Val Val Ser Gly Pro Ala Ser Leu Val Pro Ile Leu Ala Ser			
108	225	230	235	
110	cag cct gga atc cgg aag gtg gcc ttc tgc gga gcc ccg gag gaa ggg	827		
111	Gln Pro Gly Ile Arg Lys Val Ala Phe Cys Gly Ala Pro Glu Glu Gly			
112	240	245	250	255
114	cgt gcc ctt cga cgg agc ctg gcg gga gag tgt gcg gag ctg ggc ctg	875		
115	Arg Ala Leu Arg Arg Ser Leu Ala Gly Glu Cys Ala Glu Leu Gly Leu			
116	260	265	270	
118	gcg ctg ggg acg gag tgc ctg ctg ctg ctg acg gac acg gcg gac gta	923		
119	Ala Leu Gly Thr Glu Ser Leu Leu Leu Leu Thr Asp Thr Ala Asp Val			
120	275	280	285	
122	gac tgc gcc gtg gag ggt gtc gtg gac gcc gcc tgg tcc gac cgc ggc	971		
123	Asp Ser Ala Val Glu Gly Val Val Asp Ala Ala Trp Ser Asp Arg Gly			
124	290	295	300	
126	ccg ggt ggc ctc agg ctc ctc atc cag gag tct gtg tgg gat gaa gcc	1019		
127	Pro Gly Gly Leu Arg Leu Leu Ile Gln Glu Ser Val Trp Asp Glu Ala			
128	305	310	315	

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DATE: 08/10/2005

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130	atg	aga	cgg	ctg	cag	gag	cgg	atg	ggg	cgg	ctt	cgg	agt	ggc	cga	ggg	1067
131	Met	Arg	Arg	Leu	Gln	Glu	Arg	Met	Gly	Arg	Leu	Arg	Ser	Gly	Arg	Gly	
132	320					325					330					335	
134	ctg	gat	ggg	gcc	gtg	gac	atg	ggg	gcc	cgg	ggg	gct	gcc	gca	tgt	gac	1115
135	Leu	Asp	Gly	Ala	Val	Asp	Met	Gly	Ala	Arg	Gly	Ala	Ala	Ala	Cys	Asp	
136					340					345					350		
138	ctg	gtc	cag	cgc	ttt	gtg	cgt	gag	gcc	cag	agc	cag	ggg	gca	cag	gtg	1163
139	Leu	Val	Gln	Arg	Phe	Val	Arg	Glu	Ala	Gln	Ser	Gln	Gly	Ala	Gln	Val	
140					355					360					365		
142	ttc	cag	gct	ggg	gat	gtg	cct	tcg	gaa	cgc	cca	ttc	tat	ccc	cca	acc	1211
143	Phe	Gln	Ala	Gly	Asp	Val	Pro	Ser	Glu	Arg	Pro	Phe	Tyr	Pro	Pro	Thr	
144					370					375					380		
146	ttg	gtc	tcc	aac	ctg	ccc	cca	gcc	tcc	cca	tgt	gcc	cag	gtg	gag	gtg	1259
147	Leu	Val	Ser	Asn	Leu	Pro	Pro	Ala	Ser	Pro	Cys	Ala	Gln	Val	Glu	Val	
148					385					390					395		
150	ccg	tgg	cct	gtg	gtc	gtg	gcc	tcc	ccc	ttc	cgc	aca	gcc	aag	gag	gca	1307
151	Pro	Trp	Pro	Val	Val	Val	Ala	Ser	Pro	Phe	Arg	Thr	Ala	Lys	Glu	Ala	
152	400					405					410				415		
154	ctg	ttg	gtg	gcc	aac	ggg	acg	ccc	cgc	ggg	ggc	agc	gcc	agt	gtg	tgg	1355
155	Leu	Leu	Val	Ala	Asn	Gly	Thr	Pro	Arg	Gly	Gly	Ser	Ala	Ser	Val	Trp	
156					420					425					430		
158	agc	gag	agg	ctg	ggg	cag	gcg	ctg	gag	ctg	ggc	tat	ggg	ctc	cag	gtg	1403
159	Ser	Glu	Arg	Leu	Gly	Gln	Ala	Leu	Glu	Leu	Gly	Tyr	Gly	Leu	Gln	Val	
160					435					440					445		
162	ggc	act	gtc	tgg	atc	aac	gcc	cac	ggc	ctc	aga	gac	cct	tcg	gtg	ccc	1451
163	Gly	Thr	Val	Trp	Ile	Asn	Ala	His	Gly	Leu	Arg	Asp	Pro	Ser	Val	Pro	
164					450					455					460		
166	aca	ggc	ggc	tgc	aag	gag	agt	ggg	tgt	tcc	tgg	cac	ggg	ggc	cca	gac	1499
167	Thr	Gly	Gly	Cys	Lys	Glu	Ser	Gly	Cys	Ser	Trp	His	Gly	Gly	Pro	Asp	
168					465					470					475		
170	ggg	ctg	tat	gag	tat	ctg	cgg	ccc	tca	ggg	acc	cct	gcc	cgg	ctg	tcc	1547
171	Gly	Leu	Tyr	Glu	Tyr	Leu	Arg	Pro	Ser	Gly	Thr	Pro	Ala	Arg	Leu	Ser	
172	480					485					490				495		
174	tgc	ctc	tcc	aag	aac	ctg	aac	tat	gac	acc	ttt	ggc	ctc	gct	gtg	ccc	1595
175	Cys	Leu	Ser	Lys	Asn	Leu	Asn	Tyr	Asp	Thr	Phe	Gly	Leu	Ala	Val	Pro	
176					500					505					510		
178	tca	acc	ctg	ccg	gct	ggg	cct	gaa	ata	ggg	ccc	agc	cca	gca	ccc	ccc	1643
179	Ser	Thr	Leu	Pro	Ala	Gly	Pro	Glu	Ile	Gly	Pro	Ser	Pro	Ala	Pro	Pro	
180					515					520					525		
182	tat	ggg	ctc	ttc	gtt	ggg	ggc	cgt	ttc	cag	gct	cct	ggg	gcc	cga	agc	1691
183	Tyr	Gly	Leu	Phe	Val	Gly	Gly	Arg	Phe	Gln	Ala	Pro	Gly	Ala	Arg	Ser	
184					530					535					540		
186	tcc	agg	ccc	atc	cgg	gat	tcg	tct	ggc	aat	ctc	cat	ggc	tac	gtg	gct	1739
187	Ser	Arg	Pro	Ile	Arg	Asp	Ser	Ser	Gly	Asn	Leu	His	Gly	Tyr	Val	Ala	
188					545					550					555		
190	gag	ggg	gga	gcc	aag	gac	atc	cga	ggg	gct	gtg	gag	gcc	gct	cac	cag	1787
191	Glu	Gly	Gly	Ala	Lys	Asp	Ile	Arg	Gly	Ala	Val	Glu	Ala	Ala	His	Gln	
192	560					565					570				575		
194	gct	ttc	cct	ggc	tgg	gcg	ggc	cag	tcc	cca	gga	gcc	cgg	gca	gcc	ctg	1835

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102005\J664506A.raw

```

195 Ala Phe Pro Gly Trp Ala Gly Gln Ser Pro Gly Ala Arg Ala Ala Leu
196          580          585          590
198 ctg tgg gcc ctg gcg gct gca ctg gag cgc cgg aag tct acc ctg gcc 1883
199 Leu Trp Ala Leu Ala Ala Ala Leu Glu Arg Arg Lys Ser Thr Leu Ala
200          595          600          605
202 tca agg ctg gag agg cag gga gcg gag ctg aag gct gcg gag gcg gag 1931
203 Ser Arg Leu Glu Arg Gln Gly Ala Glu Leu Lys Ala Ala Glu Ala Glu
204          610          615          620
206 gtg gag ctg agc gca aga cga ctt cgg gcg tgg ggg gcc cgg gtg cag 1979
207 Val Glu Leu Ser Ala Arg Arg Leu Arg Ala Trp Gly Ala Arg Val Gln
208          625          630          635
210 gcc caa ggc cac acc ctg cag gta gcc ggg ctg aga ggc cct gtg ctg 2027
211 Ala Gln Gly His Thr Leu Gln Val Ala Gly Leu Arg Gly Pro Val Leu
212 640          645          650          655
214 cgc ctg cgg gag ccg ctg ggt gtg ctg gct gtg gtg tgt ccg gac gag 2075
215 Arg Leu Arg Glu Pro Leu Gly Val Leu Ala Val Val Cys Pro Asp Glu
216          660          665          670
218 tgg ccc ctg ctt gcc ttc gtg tcc ctg ctg gct ccc gcc ctg gcc tac 2123
219 Trp Pro Leu Leu Ala Phe Val Ser Leu Leu Ala Pro Ala Leu Ala Tyr
220          675          680          685
222 ggc aac act gtg gtc atg gtg ccc agt gcg gcc tgt cct ctg ctg gcc 2171
223 Gly Asn Thr Val Val Met Val Pro Ser Ala Ala Cys Pro Leu Leu Ala
224          690          695          700
226 ctg gag gtc tgc cag gac atg gcc acc gtg ttc cca gca ggc ctg gcc 2219
227 Leu Glu Val Cys Gln Asp Met Ala Thr Val Phe Pro Ala Gly Leu Ala
228          705          710          715
230 aac gtg gtg aca gga gac cgg gac cat ctg acc cgc tgc ctg gcc ttg 2267
231 Asn Val Val Thr Gly Asp Arg Asp His Leu Thr Arg Cys Leu Ala Leu
232 720          725          730          735
234 cac caa gac gtc cag gcc atg tgg tat ttc gga tca gcc cag ggt tcc 2315
235 His Gln Asp Val Gln Ala Met Trp Tyr Phe Gly Ser Ala Gln Gly Ser
236          740          745          750
238 cag ttt gtc gag tgg gcc tcg gca gga aac ctg aaa ccg gtg tgg gcg 2363
239 Gln Phe Val Glu Trp Ala Ser Ala Gly Asn Leu Lys Pro Val Trp Ala
240          755          760          765
242 agc agg ggc tgc ccg cgg gcc tgg gac cag gag gcc gag ggg gca ggc 2411
243 Ser Arg Gly Cys Pro Arg Ala Trp Asp Gln Glu Ala Glu Gly Ala Gly
244          770          775          780
246 cca gag ctg ggg ctg cga gtg gcg cgg acc aag gcc ctg tgg ctg cct 2459
247 Pro Glu Leu Gly Leu Arg Val Ala Arg Thr Lys Ala Leu Trp Leu Pro
248          785          790          795
250 atg ggg gac tgatgcctga gcgccaccta ctgcattttg gacacctcac 2508
251 Met Gly Asp
252 800
254 accaagggga gatgcacccc acagacacct gggactttcc ccttctggtt cctgtgtctc 2568
255 ccaataaaact ctctgaccaa ccctaaaaaa aaaaaaaaaa aaaaaaaaaa rwarmaactt 2628
256 ctggcagata tgaggctttt ttcttttttt tt 2660
258 <210> SEQ ID NO: 2
259 <211> LENGTH: 802

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RAW SEQUENCE LISTING

DATE: 08/10/2005

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TIME: 13:55:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102005\J664506A.raw

```

260 <212> TYPE: PRT
261 <213> ORGANISM: Homo sapiens
263 <400> SEQUENCE: 2
264 Met Ala Ala Thr Arg Ala Gly Pro Arg Ala Arg Glu Ile Phe Thr Ser
265 1 5 10 15
266 Leu Glu Tyr Gly Pro Val Pro Glu Ser His Ala Cys Ala Leu Ala Trp
267 20 25 30
268 Leu Asp Thr Gln Asp Arg Cys Leu Gly His Tyr Val Asn Gly Lys Trp
269 35 40 45
270 Leu Lys Pro Glu His Arg Asn Ser Val Pro Cys Gln Asp Pro Ile Thr
271 50 55 60
272 Gly Glu Asn Leu Ala Ser Cys Leu Gln Ala Gln Ala Glu Asp Val Ala
273 65 70 75 80
274 Ala Ala Val Glu Ala Ala Arg Met Ala Phe Lys Gly Trp Ser Ala His
275 85 90 95
276 Pro Gly Val Val Arg Ala Gln His Leu Thr Arg Leu Ala Glu Val Ile
277 100 105 110
278 Gln Lys His Gln Arg Leu Leu Trp Thr Leu Glu Ser Leu Val Thr Gly
279 115 120 125
280 Arg Ala Val Arg Glu Val Arg Asp Gly Asp Val Gln Leu Ala Gln Gln
281 130 135 140
282 Leu Leu His Tyr His Ala Ile Gln Ala Ser Thr Gln Glu Glu Ala Leu
283 145 150 155 160
284 Ala Gly Trp Glu Pro Met Gly Val Ile Gly Leu Ile Leu Pro Pro Thr
285 165 170 175
286 Phe Ser Phe Leu Glu Met Met Trp Arg Ile Cys Pro Ala Leu Ala Val
287 180 185 190
288 Gly Cys Thr Val Val Ala Leu Val Pro Pro Ala Ser Pro Ala Pro Leu
289 195 200 205
290 Leu Leu Ala Gln Leu Ala Gly Glu Leu Gly Pro Phe Pro Gly Ile Leu
291 210 215 220
292 Asn Val Val Ser Gly Pro Ala Ser Leu Val Pro Ile Leu Ala Ser Gln
293 225 230 235 240
294 Pro Gly Ile Arg Lys Val Ala Phe Cys Gly Ala Pro Glu Glu Gly Arg
295 245 250 255
296 Ala Leu Arg Arg Ser Leu Ala Gly Glu Cys Ala Glu Leu Gly Leu Ala
297 260 265 270
298 Leu Gly Thr Glu Ser Leu Leu Leu Leu Thr Asp Thr Ala Asp Val Asp
299 275 280 285
300 Ser Ala Val Glu Gly Val Val Asp Ala Ala Trp Ser Asp Arg Gly Pro
301 290 295 300
302 Gly Gly Leu Arg Leu Leu Ile Gln Glu Ser Val Trp Asp Glu Ala Met
303 305 310 315 320
304 Arg Arg Leu Gln Glu Arg Met Gly Arg Leu Arg Ser Gly Arg Gly Leu
305 325 330 335
306 Asp Gly Ala Val Asp Met Gly Ala Arg Gly Ala Ala Ala Cys Asp Leu
307 340 345 350
308 Val Gln Arg Phe Val Arg Glu Ala Gln Ser Gln Gly Ala Gln Val Phe
309 355 360 365

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/664,506A

DATE: 08/10/2005
TIME: 13:55:24

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\08102005\J664506A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6, 8
Seq#:4; N Pos. 1337
Seq#:7; N Pos. 1606,1620,1631,1655,1658,1666,1673,1688,1705,1711
Seq#:18; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
Seq#:18; Xaa Pos. 111,112,113,114,162,163,164,165,166,167,168,169,170,171
Seq#:18; Xaa Pos. 172,173,174,175,176,177,178,179,180,181,182,385,386,387
Seq#:18; Xaa Pos. 388,389,390,391,392,393,394,395,396,397,398,399,400,401
Seq#:18; Xaa Pos. 402,403,404,405,406,407,408,409,410,411,412,413,414,415
Seq#:18; Xaa Pos. 416,417,418,419,420,421,422,423,424,425,426,427,428,429
Seq#:18; Xaa Pos. 430,431,432,433,434,435,436,437,438,439,440,441,442,443
Seq#:18; Xaa Pos. 444,445,446,447,448,449,450,488,489,490,491,492,493,494
Seq#:18; Xaa Pos. 495,496,497,498,499,500,516,517,518,519,520,521,522,523
Seq#:18; Xaa Pos. 524,525,526,527,528,529
Seq#:25; Xaa Pos. 139,140,141,142,143,144,145,146,147,148,149,150,192,193
Seq#:25; Xaa Pos. 194,195,196,197,198,199,200,201,202,203,204,205,206,207
Seq#:25; Xaa Pos. 208,209,210,211,212,213,214,215,216,217

VERIFICATION SUMMARY

DATE: 08/10/2005

PATENT APPLICATION: US/10/664,506A

TIME: 13:55:24

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102005\J664506A.raw

L:48 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:596 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1323
L:837 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:1577
M:341 Repeated in SeqNo=7
L:1717 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1724 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1731 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1738 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80
M:341 Repeated in SeqNo=18
L:2057 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2064 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:2081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:128
M:341 Repeated in SeqNo=25

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING

DATE: 08/09/2005

PATENT APPLICATION: US/10/664,506A

TIME: 14:06:52

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\08092005\J664506A.raw

4 <110> APPLICANT: Meyers, Rachel
 5 Cook, William James
 6 Williamson, Mark
 7 Rudolph-Owen, Laura A.
 8 Gimeno, Ruth
 10 <120> TITLE OF INVENTION: 21481, A NOVEL DEHYDROGENASE MOLECULE
 11 AND USES THEREFOR
 14 <130> FILE REFERENCE: MPI00-079P1RCP2CN1M
 16 <140> CURRENT APPLICATION NUMBER: 10/664,506A
 17 <141> CURRENT FILING DATE: 2003-09-17
 19 <150> PRIOR APPLICATION NUMBER: 09/838,561
 20 <151> PRIOR FILING DATE: 2001-04-18
 22 <150> PRIOR APPLICATION NUMBER: 09/816,760
 23 <151> PRIOR FILING DATE: 2001-03-23
 25 <150> PRIOR APPLICATION NUMBER: 09/634,955
 26 <151> PRIOR FILING DATE: 2000-08-08
 28 <150> PRIOR APPLICATION NUMBER: 60/192,002
 29 <151> PRIOR FILING DATE: 2000-03-24
 31 <160> NUMBER OF SEQ ID NOS: 34
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0

*Does Not Comply
Corrected Diskette Needed*

ERRORED SEQUENCES

2278 <210> SEQ ID NO: 34
 2279 <211> LENGTH: 52
 2280 <212> TYPE: PRT
 2281 <213> ORGANISM: Artificial Sequence
 2283 <220> FEATURE:
 2284 <223> OTHER INFORMATION: hypothetical protein domain
 2288 <400> SEQUENCE: 34
 2289 Tyr Leu Ala Pro Gly Gln Gly Gln Val Ala Ile Val Thr Gly Gly Ala
 2290 1 5 10 15
 2291 Thr Gly Ile Gly Lys Ala Ile Val Lys Glu Leu Leu Glu Leu Gly Ser
 2292 20 25 30
 2293 Asn Val Val Ile Ala Ser Arg Lys Leu Glu Arg Leu Lys Ser Ala Ala
 2294 35 40 45
 2295 Asp Glu Leu Gln
 2296 50

E--> 2301 36

VERIFICATION SUMMARY

DATE: 08/09/2005

PATENT APPLICATION: US/10/664,506A

TIME: 14:06:54

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\08092005\J664506A.raw

L:48 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:596 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1323
L:837 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:1577
M:341 Repeated in SeqNo=7
L:1717 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1724 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1731 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1738 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:1749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80
M:341 Repeated in SeqNo=18
L:2057 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2064 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:2081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:128
M:341 Repeated in SeqNo=25
L:2301 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34

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